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USDOC FOR 3131/USFCS/OIO/ANESA/KREISSL  
USDOC FOR 4530/MAC/ANESA/OSA  
ICE HQ FOR STRATEGIC INVESTIGATIONS  
STATE FOR EB/ESP

E.O. 12958: N/A

TAGS: [ETTC](#) [ETRD](#) [BEXP](#) [IN](#)

SUBJECT: EXTRANCHECK: POST-SHIPMENT VERIFICATION: HINDUSTAN  
AERONAUTICS LTD., HELICOPTER DIVISION, BANGALORE

REF: USDOC 09454

¶1. Unauthorized disclosure of the information provided below is prohibited by Section 12(c) of the Export Administration Act.

¶2. On November 26, 2007, Export Control Officer (ECO) Paul Cushman and BIS FSN Prem Narayan conducted a Post-shipment Verification (PSV) at Hindustan Aeronautics Ltd. (HAL), Helicopter Division, Bangalore.

¶3. BIS requested a PSV at HAL, an entity under the Ministry of Defence (MOD), GOI. HAL was listed as the recipient of three COLUMBIA model 610 - TX triaxial accelerometers with optional adaptors and 15 COLUMBIA model 5648U-P7-F6 charge amplifiers RC - 5001004911-02. The exporter was COLUMBIA RESEARCH LABORATORIES (CRL), Woodlyn, Pennsylvania. Export License Number: No License Required (NLR). ECCN: 7A001.

¶4. ECO and FSN Narayan met with Dr. K. Balakrishna, General Manager; Mr. Seshadiri, Chief Designer; K.V. Deendayalan, Assistant General Manager, Integrated Materials Management (IMM); S. Rajamoni (Rajamoni), Chief Manager, IMM; and P.M. Pranita (Pranita), Chief Manager, Flight Test Centre (FTC). Randhir Jaiswal (Jaiswal), Deputy Secretary, Ministry of External Affairs (MEA), facilitated the meeting. Jaiswal was also present at the meeting.

¶5. HAL officials did not recall a previous visit by BIS officials to the Helicopter Division. They were aware of certain BIS regulations. Rajamoni provided a copy of the HAL Purchase Order, CRL Invoice, Air Waybill, FTC Acceptance Report, and CRL declaration confirming that the goods were shipped in accordance with the Export Administration Regulations.

¶6. HAL officials stated that the accelerometers are used to detect and measure vibration at various stations within a helicopter and for measuring acceleration caused by gravity. The charge amplifiers are used to convert ultra low-level vibration signals into a useable form.

¶7. After the meeting, ECO and FSN Narayan were given a tour of the FTC warehouse where ECO physically verified all three accelerometers and all fifteen charge amplifiers. FTC maintains a log of items checked out from the warehouse including the items on check.

¶8. HAL, established in 1940, is the largest public sector undertaking within the Department of Defence Production, MOD. HAL, currently has sixteen production units and nine research and design centers in seven locations throughout India. Of the 3,300 aircraft HAL has manufactured, approximately 1,100 were based on indigenous design. It has so far manufactured approximately 3,500 aircraft

engines, and performed overhauls of more than 8,100 aircraft and 27,000 engines. HAL has played a significant role in India's space program by participating in the manufacture of Satellite Launch Vehicles such as PSLV (Polar Satellite Launch Vehicle), GSLV (Geo Stationary launch Vehicle), IRS (Indian Remote Satellite) & INSAT (Indian National Satellite). HAL's major clients include the Indian Air Force, Indian Army, Indian Navy, Indian Coast Guard, the Department of Space, and the Border Security Forces. It also supplies transport aircraft and helicopters to various airlines and Indian state governments. HAL employs approximately 32,000 personnel including 1,100 in the Helicopter Division.

19. Recommendation: At the time of this visit, the Helicopter Division of Hindustan Aeronautics Ltd. appeared to be a suitable recipient of the controlled commodities.

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